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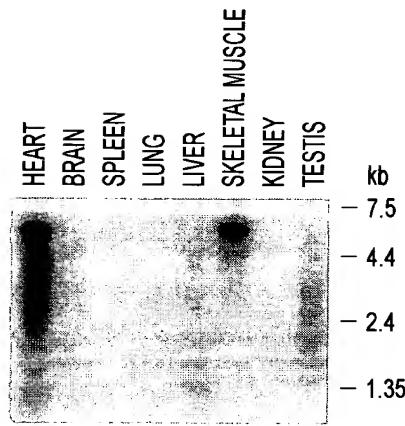
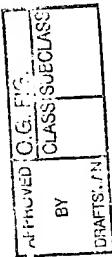


FIG. 1A

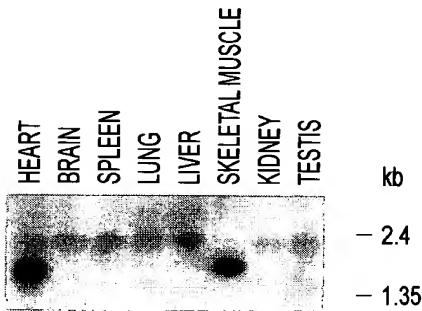


FIG. 1B



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<b>rMiRP1</b> <b>hMiRP1</b> <b>rMink</b> <b>hMink</b>	<b>1</b> <b>MTTIANLTQILEDATKKVFIYMDSWRRNTTA-EQQALQARVDAENFYVYVILYI</b> <b>MSTLISNFHQILEDVFRRIIFITYMDNWRQNTTA-EQEALQAKVDAENFYVYVILYI</b> <b>-MALSNSITVLP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>-MILSNITIAVTP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>10</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>20</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>30</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>40</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>50</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>	<b>60</b> <b>TTA-EQQALQARVDAENFYVYVILYI</b> <b>TTA-EQEALQAKVDAENFYVYVILYI</b> <b>LP--FLASLWQETDEPGGNTMSADLARRSQLRDSK--LEALY</b> <b>LP--FLTKLWQETVQQGGMSG-LARRSPRGDGK--LEALY</b>
<b>rMiRP1</b> <b>hMiRP1</b> <b>rMink</b> <b>hMink</b>	<b>70</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	<b>80</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	<b>90</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	<b>100</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	<b>110</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	<b>120</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQOKYRS--QILHIEDSKAT-IHENILGATG--FTVSP</b> <b>LVSTVKSKRREHSDQDPYHQYIVED-WQEKYKS--QILNLEESKAT-IHENIGAAG--FKMSP</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b> <b>MISYIRSIIKKIIEHSDPENVYIESDAWQEKGKALFQARVLESFRACYVIEENQAAVEQOPATHIPELKLPLS</b>	

FIG. 1C

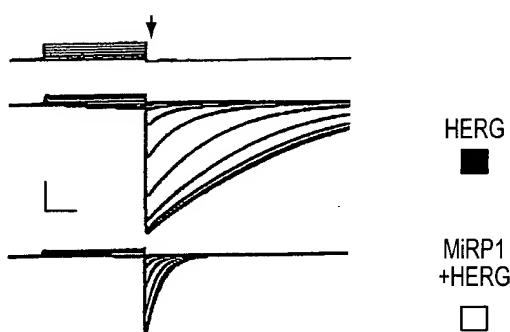
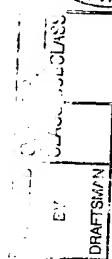


FIG. 2A

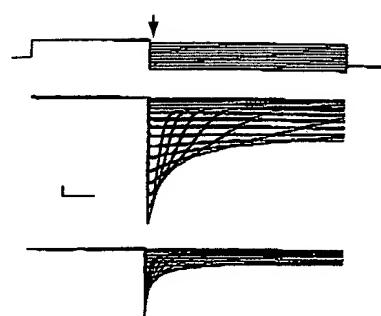


FIG. 2B

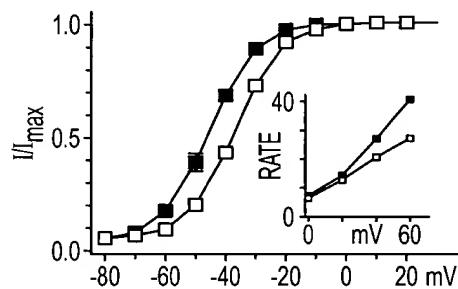


FIG. 2C

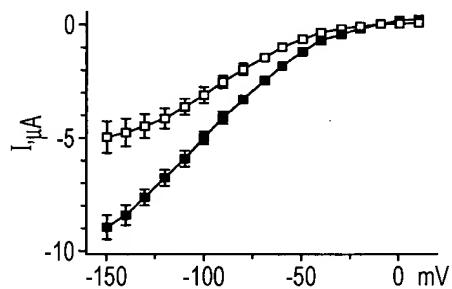


FIG. 2D

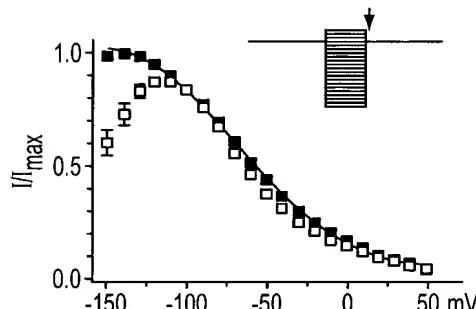


FIG. 2E

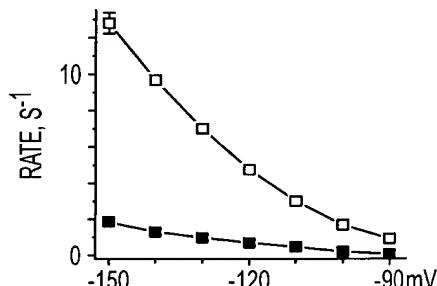


FIG. 2F

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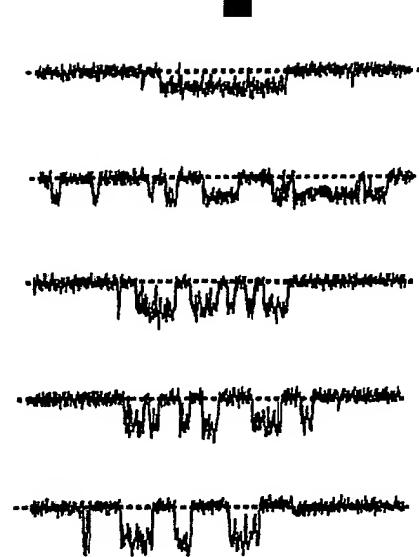
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 rMiRP1 + HERG

HERG



-60 mV

-70 mV

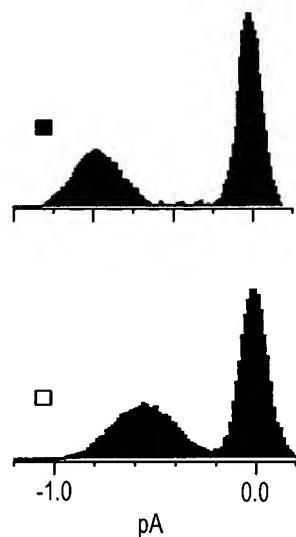
-80 mV

-90 mV

-100 mV

FIG. 3A

1 pA  
 0.1 s



pA

FIG. 3B

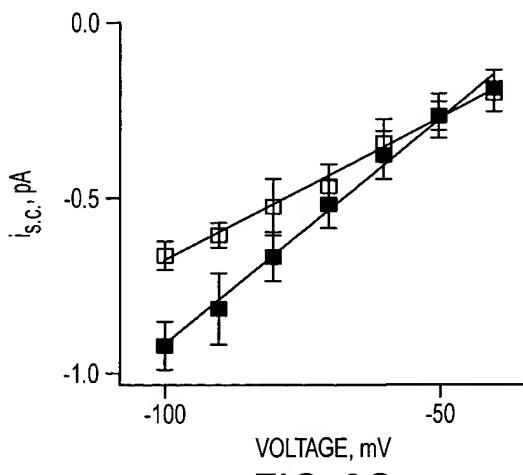
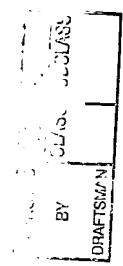


FIG. 3C

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rMIRP1 + HERG

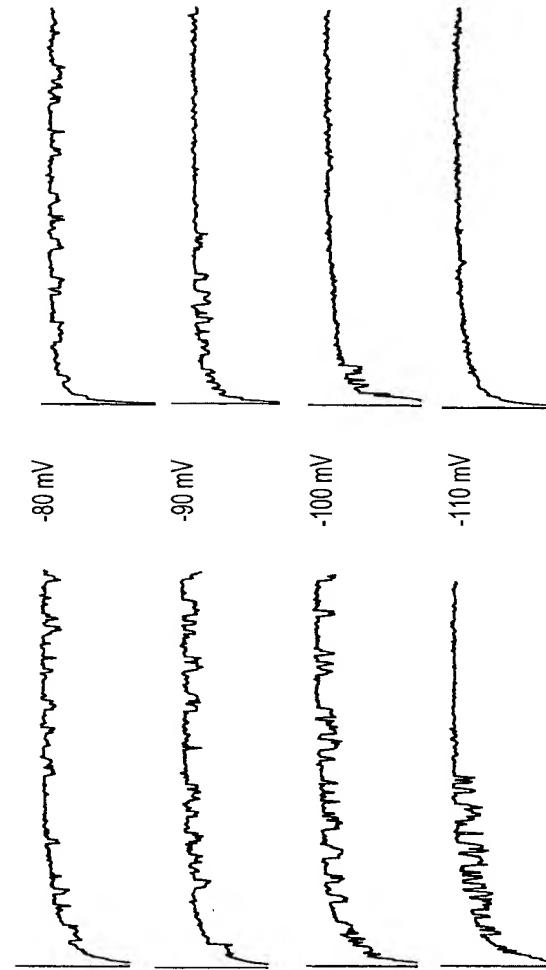


FIG. 4A

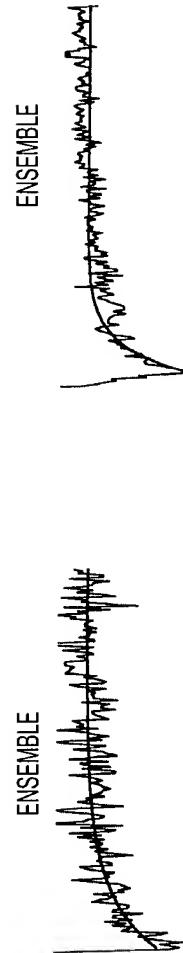


FIG. 4B

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P A T E N T & T R A D E M A R K O F F I C E

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FIG. 5  
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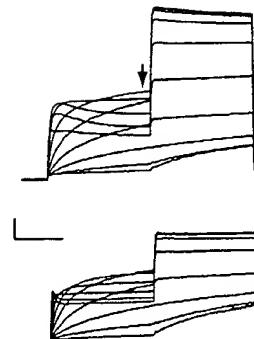


FIG. 5A

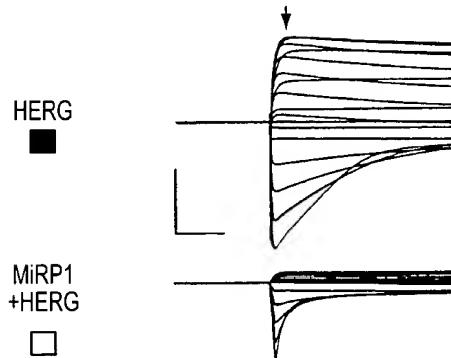


FIG. 5D

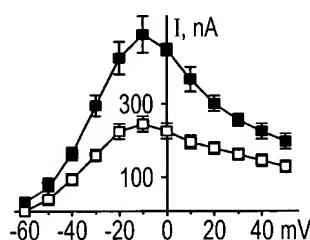


FIG. 5B

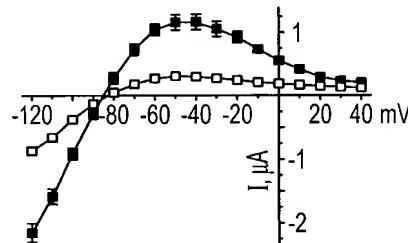


FIG. 5E

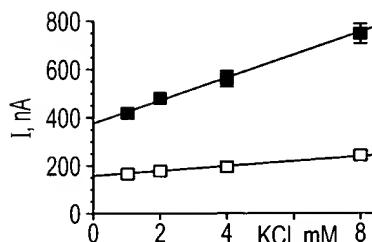


FIG. 5C

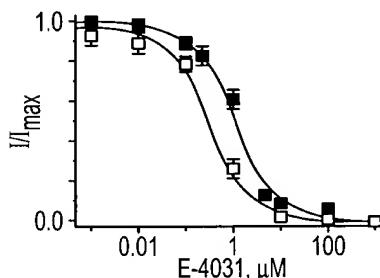


FIG. 5F



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1	2	3	4	5
TL	IP	IP	IP	IP
M1	M1	-	M1	M1
H	H	H	-	C



FIG. 6A

1	2	3
M1	-	M1
H	H	H



FIG. 6B



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hMIRP1 + HERG



HERG

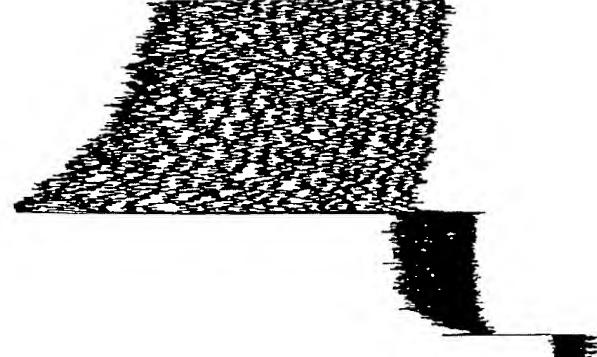


FIG. 7A

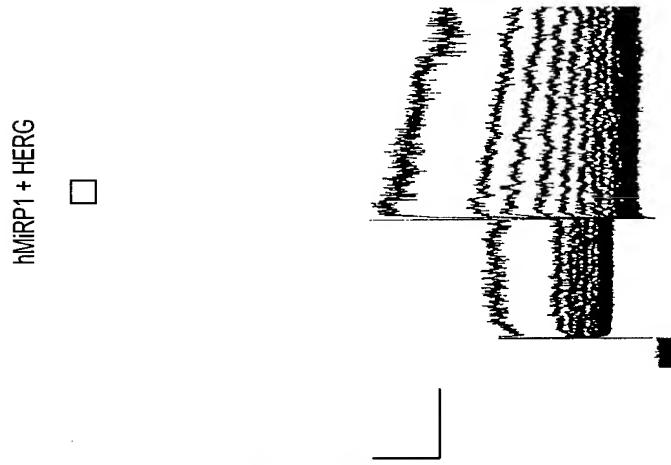


FIG. 7B



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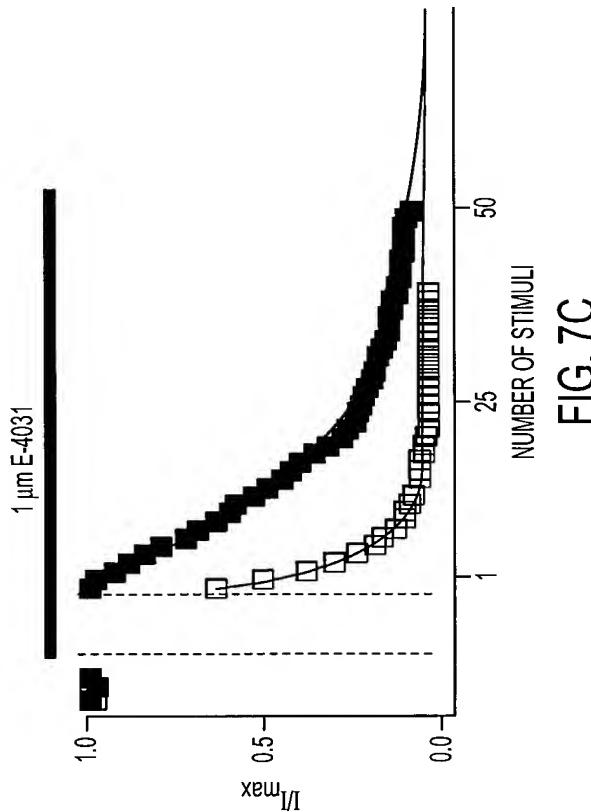


FIG. 7C



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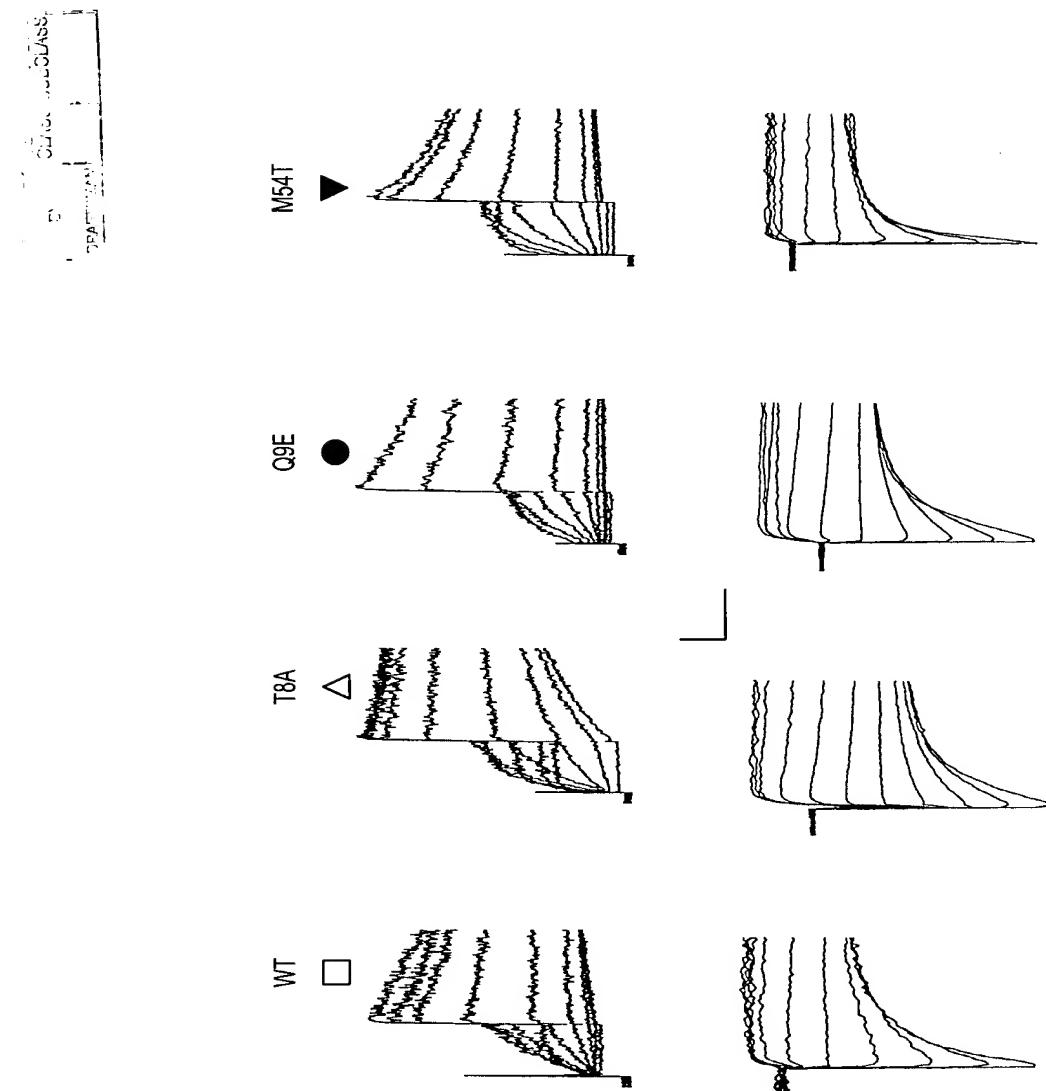


FIG. 8A

FIG. 8B



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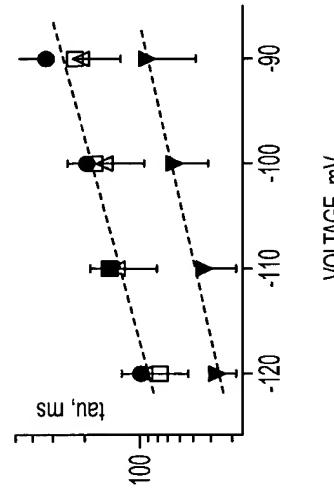


FIG. 8D

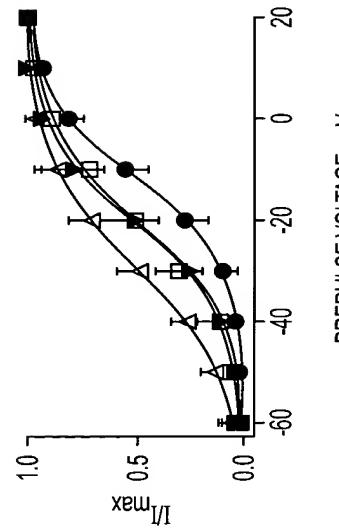


FIG. 8C



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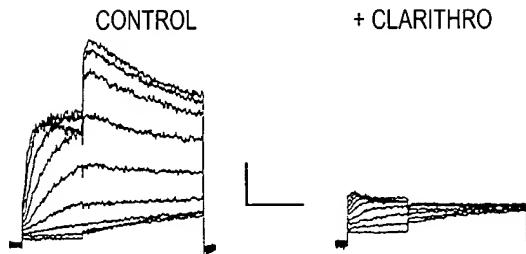
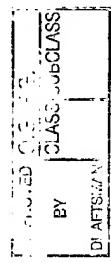


FIG. 9A

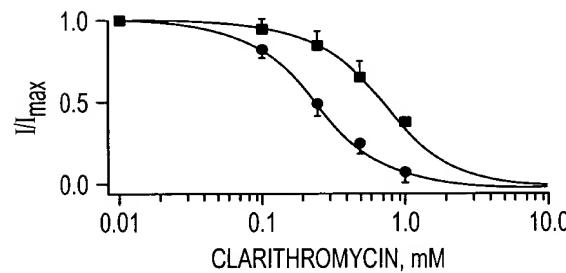


FIG. 9B

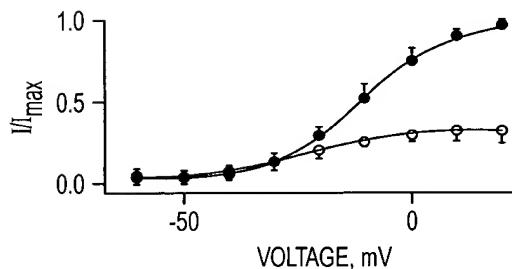


FIG. 9C